

**What is claimed is:**

- (1) A carrier for cell culture comprising a porous membrane and an alginate gel layer which is formed on the membrane.
- (2) The carrier of claim 1, wherein the alginate gel layer is composed of a calcium alginate gel.
- (3) The carrier of claim 1 or claim 2, which further comprises an extracellular matrix component gel layer or extracellular matrix component sponge layer which is formed on the alginate gel layer.
- (4) The carrier of claim 3, wherein the extracellular matrix component is collagen.
- (5) A method for culturing a cell, wherein the method comprises culturing the cell using the carrier for cell culture according to any one of claims 1 to 4.
- (6) A method for piling up a cell, wherein the method comprises: forming a cell layer on the carrier according to any one of claims 1 to 4; solubilizing an alginate gel layer of the carrier thereby exfoliating the cell layer from a porous membrane of the carrier; and piling up the exfoliated cell layer on another cell layer formed on the carrier according to any one of claims 1 to 4.
- (7) A cell multi-layer obtained by the method according to claim 6.

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